

Table A-1a. National Air Quality Trends Statistics for Criteria Pollutants, 1981–1990

Statistic	# of Sites	Units	Percentile	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Carbon Monoxide													
2nd Max. 8-hr.	321	ppm	95th	15.2	15.3	15.3	13.8	12.7	12.2	11.6	11.3	10.9	10.2
2nd Max. 8-hr.	321	ppm	90th	12.9	12.8	12.4	11.9	11.0	11.0	9.7	9.9	9.6	8.8
2nd Max. 8-hr.	321	ppm	75th	10.6	10.0	9.8	9.9	8.9	8.9	8.3	7.8	7.8	7.2
2nd Max. 8-hr.	321	ppm	50th	7.7	7.4	7.3	7.3	6.3	6.7	6.3	6.0	6.0	5.5
2nd Max. 8-hr.	321	ppm	25th	5.6	5.5	5.2	5.2	4.9	5.0	4.7	4.5	4.5	4.3
2nd Max. 8-hr.	321	ppm	10th	4.2	4.3	4.0	4.2	3.8	3.9	3.7	3.5	3.6	3.3
2nd Max. 8-hr.	321	ppm	5th	3.7	3.6	3.4	3.5	3.4	3.3	3.3	3.1	2.9	2.9
2nd Max. 8-hr.	321	ppm	Arith. Mean	8.4	8.1	7.9	7.8	7.1	7.2	6.7	6.4	6.4	5.9
Lead													
Max. Qtr. AM	228	ppm	95th	1.39	1.31	1.04	1.03	0.70	0.41	0.31	0.29	0.23	0.17
Max. Qtr. AM	228	ppm	90th	1.02	0.96	0.77	0.72	0.56	0.30	0.21	0.20	0.15	0.13
Max. Qtr. AM	228	ppm	75th	0.61	0.69	0.55	0.50	0.32	0.19	0.13	0.11	0.10	0.08
Max. Qtr. AM	228	ppm	50th	0.41	0.43	0.37	0.33	0.21	0.12	0.09	0.07	0.06	0.05
Max. Qtr. AM	228	ppm	25th	0.28	0.28	0.24	0.23	0.14	0.08	0.06	0.04	0.04	0.03
Max. Qtr. AM	228	ppm	10th	0.20	0.18	0.16	0.15	0.10	0.06	0.04	0.02	0.03	0.02
Max. Qtr. AM	228	ppm	5th	0.15	0.14	0.13	0.12	0.07	0.05	0.03	0.02	0.02	0.01
Max. Qtr. AM	228	ppm	Arith. Mean	0.58	0.58	0.47	0.45	0.28	0.18	0.13	0.12	0.10	0.08
Nitrogen Dioxide													
Arith. Mean	169	ppm	95th	0.051	0.050	0.046	0.046	0.048	0.050	0.043	0.048	0.045	0.042
Arith. Mean	169	ppm	90th	0.041	0.039	0.038	0.040	0.039	0.036	0.038	0.038	0.038	0.035
Arith. Mean	169	ppm	75th	0.028	0.029	0.028	0.029	0.029	0.029	0.028	0.029	0.029	0.028
Arith. Mean	169	ppm	50th	0.021	0.021	0.022	0.023	0.022	0.022	0.022	0.023	0.022	0.020
Arith. Mean	169	ppm	25th	0.016	0.016	0.016	0.016	0.017	0.016	0.017	0.017	0.016	0.015
Arith. Mean	169	ppm	10th	0.009	0.009	0.008	0.009	0.009	0.009	0.010	0.009	0.009	0.009
Arith. Mean	169	ppm	5th	0.006	0.004	0.004	0.004	0.005	0.004	0.004	0.003	0.004	0.004
Arith. Mean	169	ppm	Arith. Mean	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022
Ozone													
2nd Max. 1-hr.	471	ppm	95th	0.220	0.210	0.224	0.204	0.190	0.170	0.183	0.203	0.180	0.170
2nd Max. 1-hr.	471	ppm	90th	0.167	0.161	0.186	0.165	0.160	0.150	0.164	0.181	0.147	0.146
2nd Max. 1-hr.	471	ppm	75th	0.140	0.136	0.150	0.139	0.133	0.130	0.140	0.155	0.124	0.122
2nd Max. 1-hr.	471	ppm	50th	0.116	0.115	0.130	0.114	0.112	0.112	0.118	0.130	0.108	0.109
2nd Max. 1-hr.	471	ppm	25th	0.100	0.100	0.110	0.100	0.098	0.099	0.104	0.110	0.098	0.096
2nd Max. 1-hr.	471	ppm	10th	0.090	0.087	0.095	0.090	0.088	0.086	0.090	0.097	0.086	0.084
2nd Max. 1-hr.	471	ppm	5th	0.080	0.080	0.086	0.081	0.078	0.080	0.087	0.088	0.080	0.077
2nd Max. 1-hr.	471	ppm	Arith. Mean	0.126	0.125	0.137	0.125	0.123	0.118	0.125	0.136	0.116	0.114
4th Max. 8-hr.	468	ppm	95th	0.133	0.131	0.145	0.132	0.134	0.123	0.128	0.141	0.122	0.116
4th Max. 8-hr.	468	ppm	90th	0.116	0.115	0.126	0.113	0.113	0.107	0.116	0.129	0.106	0.106
4th Max. 8-hr.	468	ppm	75th	0.101	0.098	0.110	0.100	0.097	0.095	0.102	0.116	0.093	0.094
4th Max. 8-hr.	468	ppm	50th	0.088	0.088	0.097	0.088	0.087	0.085	0.091	0.102	0.084	0.083
4th Max. 8-hr.	468	ppm	25th	0.077	0.076	0.083	0.077	0.078	0.076	0.080	0.087	0.076	0.075
4th Max. 8-hr.	468	ppm	10th	0.065	0.065	0.070	0.067	0.068	0.068	0.071	0.076	0.068	0.066
4th Max. 8-hr.	468	ppm	5th	0.057	0.058	0.064	0.061	0.062	0.061	0.067	0.067	0.063	0.059
4th Max. 8-hr.	468	ppm	Arith. Mean	0.091	0.090	0.099	0.091	0.091	0.088	0.093	0.102	0.087	0.085

Table A-1a. National Air Quality Trends Statistics for Criteria Pollutants, 1981–1990 (continued)

Statistic	# of Sites	Units	Percentile	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<i>PM₁₀</i>													
Annual Avg.	—	µg/m ³	95th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	90th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	75th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	50th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	25th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	10th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	5th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m ³	Arith. Mean	—	—	—	—	—	—	—	—	—	—
<i>Sulfur Dioxide</i>													
Arith. Mean	456	ppm	95th	0.0223	0.0199	0.0184	0.0193	0.0186	0.0180	0.0169	0.0182	0.0176	0.0160
Arith. Mean	456	ppm	90th	0.0186	0.0165	0.0152	0.0164	0.0160	0.0147	0.0142	0.0150	0.0148	0.0137
Arith. Mean	456	ppm	75th	0.0134	0.0123	0.0121	0.0126	0.0117	0.0118	0.0114	0.0113	0.0114	0.0103
Arith. Mean	456	ppm	50th	0.0091	0.0087	0.0086	0.0089	0.0087	0.0083	0.0082	0.0082	0.0080	0.0074
Arith. Mean	456	ppm	25th	0.0061	0.0058	0.0058	0.0055	0.0053	0.0052	0.0051	0.0050	0.0047	0.0045
Arith. Mean	456	ppm	10th	0.0028	0.0030	0.0028	0.0028	0.0026	0.0024	0.0024	0.0025	0.0023	0.0022
Arith. Mean	456	ppm	5th	0.0018	0.0015	0.0016	0.0017	0.0018	0.0016	0.0016	0.0019	0.0017	0.0016
Arith. Mean	456	ppm	Arith. Mean	0.0102	0.0095	0.0093	0.0095	0.0090	0.0088	0.0086	0.0087	0.0085	0.0079
2nd Max. 24-hr.	—	ppm	95th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	90th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	75th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	50th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	25th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	10th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	5th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	Arith. Mean	—	—	—	—	—	—	—	—	—	—